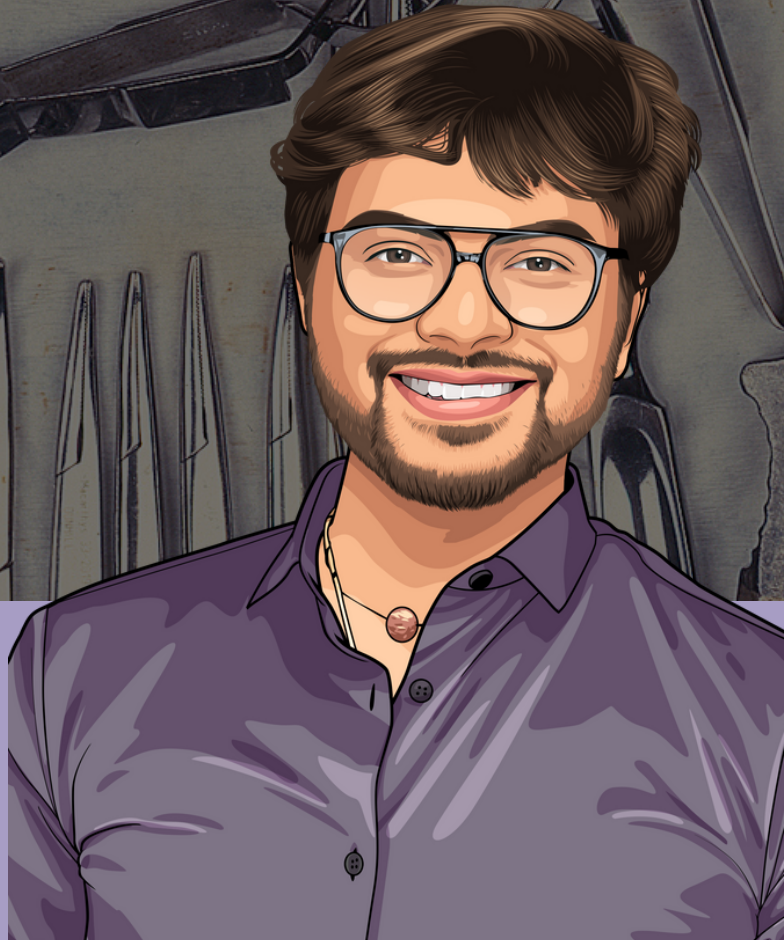# HOW CAN AI HELP IN STAFF TRAINING AND ONBOARDING?

ARTIFICIAL INTELLIGENCE EXPERT

## BEYOND CLEAN

**Yeshwanth Pulijala, PhD**
Founding Director & CEO | Scalpel Ltd

# How can AI help in staff training and onboarding?

*Yeshwanth Pulijala, PhD*

*Founding Director & CEO | Scalpel Ltd*

One of the biggest challenges in sterile processing departments is the growing demand for highly trained personnel. As more operations are performed and the demand for properly sterilized instruments increases, there is a constant need for skilled workers who can handle the sterilization process. This demand often outpaces the supply of qualified candidates.

The high turnover rate in sterile processing is often due to physically demanding and mentally exhausting work, and many employees eventually burn out and leave the field. When they go, they walk away with the tacit tribal knowledge of surgical equipment with them. This leaves departments constantly scrambling to find and train new employees, leading to gaps in staffing and potential disruptions in the sterilization process.

Now imagine if there is a solution that cuts down the training time. AI can do just that! Using technologies like Computer Vision, data analytics, and machine learning, AI-powered training modules can provide interactive and immersive training to new technicians. These AI algorithms can create customized learning paths for new technicians based on their skill level and previous experience. This can help them focus on the areas they need to improve and learn at their own pace.

AI can further automate repetitive tasks, improve quality control, provide real-time feedback and support, and enable remote collaboration and training. AI algorithms can also provide immediate feedback and coaching to new technicians during their onboarding process. They can analyze the technician's performance and provide personalized feedback on how to improve their skills.

Computer vision-driven augmented intelligence can help to alleviate staff burnout, improve staff retention, and address challenges with onboarding through highly accurate and reliable technology solutions.

*Beyond Clean Artificial Intelligence Expert™ Biography:*

# Yeshwanth Pulijala, PhD
## Founding Director & CEO
## Scalpel Ltd

Dr. Yeshwanth Pulijala (Yesh) is the founder and CEO of Scalpel. In this role he leads a highly motivated team building AI tools to enhance patient safety across the peri-operative pathway. Scalpel provides a clinically validated surgical intelligence platform that uses computer vision to provide real-time insights into clinical workflows - starting with managing surgical instruments. Trained as a dentist, Yesh has over nine years of interdisciplinary experience in healthcare and technology (Virtual Reality, Augmented Reality, and Computer Vision). In his doctoral research, he has designed and evaluated one of the first immersive virtual reality training tools for Oral and Maxillofacial Surgery.

Pulijala has spent thousands of hours in operating rooms where he has first-hand experienced several surgeries going wrong - of which, to his surprise, nearly 50% were preventable. That significantly impacted him - sparking his mission to improve current surgical processes and prioritize patient safety. In 2017, he founded Scalpel to make surgery safer.

In the last few years, Scalpel has been on an incredible journey to engage healthcare institutions globally to align with their mission to improve patient safety in surgery. They have partnered with some of the most innovative healthcare providers and manufacturers. Today, Scalpel is shaping the future of surgery by connecting surgical data science with clinical performance, not only inside the operating rooms but across the perioperative pathway.

Stay tuned to his Expert Series so you can learn more about how to use AI in your Sterile Processing unit and streamline your operations to make surgery safer.

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